

GP-301946

## AUTOMOTIVE VEHICLE AIR BAG SYSTEM

## ABSTRACT OF THE DISCLOSURE

The present invention is for a vehicle having an air bag system for impact restraint. The air bag system includes a gas emitting inflator for  
5 emitting inflation gas upon receiving a signal of an impact, a fill tube having a fill end in fluid communication with the inflator to port the inflation gas from the inflator, and an air bag cushion in fluid communication with the fill tube to receive the inflation gas from the fill tube and deployable in an interior space adjacent to a seat upon the impact. The air bag system also includes a tether  
10 operable to both a restricted and unrestricted length in conjunction with a dual depth mechanism. The air bag system may further include a vent operable to  
both an open and a closed state in conjunction with the dual depth mechanism.